

CLAIMS

- FIG A2*
1. A device for affixing objects (6) to products moving in a row, which device is provided with a holder (5) for a stock of said objects (6) and with affixing means (2) comprising a carrier (4) for removing an object (6) from said holder (5) and moving said object (6), which affixing means (2) are capable of rotary movement about an axis of rotation (3) and of affixing said object (6) to the moving product during said rotary movement, characterized in that said affixing means (2) can be driven intermittently, with rotation and standstill alternating with each other, during which standstill the carrier (4) can remove an object (6) from the holder (5).
2. A device according to claim 1, characterized in that said affixing means (2) are provided with more than one carrier (4), wherein the carriers (4) are positioned a substantially uniform distance apart in a circle round the axis of rotation (3), in such a manner that one carrier (4) is positioned near the holder (5) during standstill of the affixing means (2), whilst the place where the objects (6) are to be affixed to the products is located at a position on said circle, substantially centrally between two carriers (4).
3. A device according to any one of the preceding claims, characterized in that a carrier (4) is provided with a suction nozzle (7), preferably two suction nozzles (7), for engaging an object (6), which suction nozzle (7) preferably has a diameter of more than 15 mm.
4. A device according to any one of the preceding claims, characterized in that a carrier (4) is

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movable in radial direction with respect to the axis of rotation (3).

5. A device according to any one of the preceding claims, characterized in that said affixing means (2) are provided with more than one carrier (4), wherein said carriers (4) are positioned at substantially uniform distance apart in a circle round the axis of rotation (3), wherein the holder (5) and the place where the objects (6) are affixed to the products are positioned in such a manner with respect to each other, that one carrier (4) will be present at the location of the holder (5) during standstill of the affixing means (2), whilst another carrier (4), which has removed an object (6) from the holder (5), will not have affixed said object (6) yet.
6. A device according to any one of the preceding claims, characterized by a glue dispenser (22), which is capable of applying an amount of glue to the object (6) which has been engaged by a carrier (4), preferably substantially during standstill of said affixing means (2).
7. A device according to any one of the preceding claims, characterized in that said device is provided with an electric driving motor (25), whose rotational speed is controlled on the basis of signals from a pulse generator, which signals are a measure for the speed of movement of the products.
8. A device according to any one of the preceding claims, characterized by control means which are capable of putting a carrier (4) temporarily out of action.

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9. A device according to any one of the preceding claims, characterized by control means, which are provided with detection means, which detect that a moving product is approaching the affixing means (2).
10. A device according to any one of the preceding claims, characterized in that said affixing means (2) are driven via an index mechanism (30), whose outgoing shaft (31) is intermittently stationary, whilst the ingoing shaft (29) rotates continuously.
11. A device according to claim 10, characterized in that the ingoing shaft (29) of said index mechanism (30) also drives a driving mechanism (35, 36, 37, 19, 18, 20) for driving parts of the device, for example the carrier (4), during standstill of the affixing means (2).
12. A device according to claim 11, characterized in that said driving mechanism (35, 36, 37, 19, 18, 20) can move the carrier (4) during standstill of said outgoing shaft (31).
13. A device according to any one of the claims 10 - 12, characterized in that said ingoing shaft (29) of the index mechanism (30) is provided with a cam disc (35), against which a cam (36) abuts, which cam is provided on a driving mechanism (35, 36, 37, 19, 18, 20) for driving parts of the device, for example the carrier (4), during standstill of the affixing means (2).
14. A device according to claim 13, characterized in that said cam (36) is provided on a lever (37) which is rotatable about a shaft (19), whereby rotation of said shaft (19) causes the respective part of the device, for example the carrier (4), to move.

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15. A device according to claim 14, characterized in that said driving mechanism (35, 36, 37, 19, 18, 20) comprises a lever (18) which is rotatable about a shaft (19), which lever is provided with a cam (20), whose movement causes the carrier (4) to move.
16. A method for affixing objects (6) to products moving in a row, whereby an object (6) is removed by affixing means (2) from a holder (5) of a stock of objects (6) and subsequently moved by said affixing means (2) to a position in which it abuts against a moving product, whilst the affixing means (2) are rotated about an axis of rotation at such a speed that the speed of movement of the object (6) is substantially equal to the speed of movement of the product, characterized in that said affixing means (2) are driven intermittently with rotation and standstill alternating with each other, during which standstill the affixing means (2) carrier remove an object (6) from the holder (5).
17. A method according to claim 16, characterized in that said affixing means (2) are driven via an index mechanism (30), the outgoing shaft (31) of which is intermittently stationary, whilst the ingoing shaft (29) rotates continuously.
18. A method according to claim 17, characterized in that said ingoing shaft (29) also drives a driving mechanism (35, 36, 37, 19, 18, 20), which drives parts of the device, for example the carrier (4), during standstill of the affixing means (2).

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